

# CURRENT SCIENCE

₹ 50

Volume 130 Number 5

10 March 2026



Understanding the threat of *Polyphagozerra coffeae* to sandalwood

Safeguarding Dal lake: innovative conservation approaches

Unveiling surface fluxes: a year in the Bay of Bengal

Current Science Association



Indian Academy of Sciences



# CURRENT SCIENCE

394 **Highlights of the Issue**

**EDITORIAL**

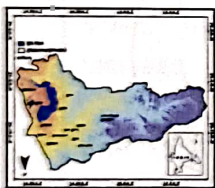
- 395 **Conservation of wetlands**  
S. K. Satheesh

**COMMENTARY**

- 397 **Regulatory T cells and the 2025 Nobel Prize: the cellular symphony of tolerance and restraint**  
Pawan Sharma and Gobardhan Das

**SCIENTIFIC CORRESPONDENCE**

- 400 **Gold mineralisation from Karankhol area, Sonakhan Greenstone Belt, Bastar Craton, India**  
Samir Debnath, Sabyasachi Dutta, Ashish Narendra Bhandari, Satya Narayana Mahapatro, Sudip Bhattacharyya

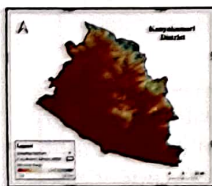


**GENERAL ARTICLE**

- 405 **Conservation strategies for Dal lake and its catchment in Himalaya**  
I. J. Khan, Mir Rufaida and Sofi Basit

**RESEARCH ARTICLES**

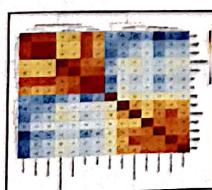
- 415 **Year-long eddy covariance surface fluxes from a Bay of Bengal mooring compared with operational monsoon mission models**  
G. S. Bhat, Venkata Jampana, E. Pattabhi Rama Rao, S. Shiva Prasad, Suresh Kumar, B. Praveen Kumar, T. Srinivasa Kumar, D. Sengupta, M. Ravichandran, J. B. Edson, T. J. Farrar, A. Rao Suryachandra, Pradhan Maheshwar, A. Jayakumar and T. J. Anurose



- 423 **Performance analysis of different machine learning models on groundwater quality prediction for sustainable groundwater management**  
Annie Jose and Srinivas Yasala

- 431 **Multi-wavelength absorption and morphological characteristics of aerosol particles from different biofuel types in India**  
Parminder Kaur, B. S. Arun, Anirban Guha and Atar Singh Pipal

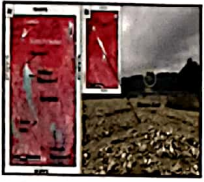
- 443 **A comparative study on the floristic diversity of forest and grassland ecosystems of Kachchh, an arid region of western India**  
Tejashwi Pindolia and Arun Kumar Roy Mahato



- 449 **Phenology of mango (*Mangifera indica* L.) under varied crop age and management strategies for higher productivity in semi-arid tropics of Indian sub-continent**  
R. Krupashree, H. S. Shivaramu, M. N. Thimmegowda, Lingaraj Huggi, A. P. Mallikarjuna Gowda and B. R. Premalatha

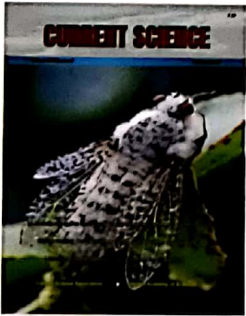
RESEARCH COMMUNICATIONS

- 458 **Incidence of *Polyphagozerra coffeae* Nietner (Lepidoptera: Cossidae) infestation to sandalwood plantations of southern India**  
Rashmi Ramesh Shanbhag, N. Kavya, K. N. Manjula, R. Sundararaj and S. Padma



- 461 **Understanding the causal factors of flood and sedimentation hazards in the Subansiri- Siang window of North Brahmaputra plain, Northeastern India**  
Sorat Konwar and Parag Phukon

- 470 **Burrows of biodiversity: faunal associations with Chinese pangolin habitats in the Mahananda Wildlife Sanctuary, West Bengal, India**  
Priyanka Rai, Ratnadeep Sarkar, Rhea Ganguly and Sunita Pradhan



◀ COVER. *Polyphagozerra coffeae* infestation to sandalwood.. See page 458.

Indexed in CURRENT CONTENTS/GEOBASE/CHEMICAL ABSTRACTS/IndMED/SCOPUS/  
WEB OF SCIENCE/JSTOR